3 MD PROJECT DESCRIPTION Equipment List Equipment List (con't.) B. Equipment to be furnished and/or installed by the contractor. I. General B. Equipment to be furnished and/or installed by the contractor. SPECIFICATION SPECIFICATION This portion of the project involves the modification of the ITEM NO. QUANTITY UNIT SECTION DESCRIPTION ITEM NO. QUANTITY UNIT SECTION DESCRIPTION existing intersection control beacon (ICB) at the intersection of MD 152 (Magnolia Road) at Trimble Road in 1001 ΕA Maintenance of traffic 8062 ΕA Removal of existing Harford County, Maryland. Modifications at this intersection per assignment traffic signal PHASING SEQUENCE CHART include converting the existing ICB to a full color 5005 LF 24 in. white equipment to be operation traffic signal. MD 152 is assumed to run in a permanent preformed salvaged consting of: north-south direction. pavement marking tape 12 in. one way, one II. Intersection Operation 8011 EΑ 814 Install signal head section(Y) signal any type head - mast arm mount This intersection shall operate in a NEMA (Fully Actuated) 8015 EΑ Install mircoloop probe set five (5) phase operation with the northbound and southbound MD 152 Phase 2 & 6 operating in a fixed time mode. The Eastbound and Westbound GGG G G R R R R -8018 1 EA 816 12 in. one way, one Install controller approaches of Trimble Road shall operate concurrently. 2 & 6 Change section(R) signal and cabinet - pole R R R R -6/G G R R head - mast arm mount mount Phase 3 III. Special Notes 8022 670 LF 815 Furnish and install Phase 3 Clear Two circuit flasher 1.) Maintenance of traffic will be handled by the saw cut for signals RRRRG and cabinet - pole Phase 4 & 8 G G G contractor utilizing the following standard plates for (loop detector) mount traffic control: 104. 01, 104.107, 105.00, 105.03, RR RRY 4 & 8 Change 8024 60 805 Furnish and install 1 105.101, 105.110,107.707 8076 EΑ 807 Control and in. liquid tight Flashing FLY FLY FLY FL FL FL FL distribution 2.) The traffic signal will be turned off and the flexible, non-Operation equipment. intersection will be controlled by a police officer metallic conduit for during the change over of controller cabinets. detector wire sleeve PVC conduit - trenched. 3.) The following are SHA District 4 Contact persons: 8025 800 LF 805 Furnish and install 2 Mr. Richard L. Daff, Sr. in. schedule 40 rigid Mr. Dave Malkowski Chief, Traffic Operations PVC conduit - trenched. District Engineer Division (410) 787-7630 (410) 321-3461 8028 15 LF Furnish and install 3 in, schedule 40 rigid Mr. Darrell Wiles Mr. Russell Yurek WIRING DIAGRAM Asst. District Engineer -Asst. District Engineer -Traffic Maintenance 8030 85 LF Furnish and install 3 (410) 321-3514 (410) 321 3468 in. schedule 80 rigid THE STATE OF THE S PVC conduit - bored. Mr. Joseph McMahon Asst. District Engineer- Utility 8035 EΑ Furnish and install (410) 321-3456 electric handhole Equipment List 8037 EΑ Furnish and install 804 ground rod (3/4 in. x A. Equipment to be supplied by the Administration. 10 ft.) A-K,P-SPECIFICATION 1000 LF 810 Furnish and install ITEM NO. QUANTITY UNIT SECTION DESCRIPTION loop wire encased in flexible tubing (No. 9001 12 in. one way, three 14 AWG) section (R,Y,G)-G,H,J,K signal head - mast 8044 Furnish and install arm mount electrical cable 2 conductor (aluminum 9002 EΑ 12 in. one way, five shielded) section(R,Y,G,YA,GA) signal head - mast 8047 80 LF Furnish and install arm mount electrical cable 5 conductor (No. 14 9003 SF Sheet aluminum signs AWG) WIRING KEY consisting of: A-D - MICROLOOP PROBE LEAD-IN CABLE. 8048 220 LF Furnish and install E-F - 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG) EΑ Guide Shield Assembly electrical cable 7 -ALUMINUM SHIELDED. G,H,J,K - 7 CONDUCTOR ELECTRICAL CABLE (NO.14 AWG) $(30 in. \times 51 in.)$ conductor (No. 14 BG&E L-O - 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG) 156359 AWG) P - 1 CONDUCTOR ELECTRICAL CABLE (NO. 6 AWG) W3-3 New Signal Ahead BARE STRANDED COPPER 8052 20 LF (36 in. x 36 in.) -Furnish and install LW - LOOP WIRE. electrical cable - 1ground mounted PS - EXISTING POWER SERVICE FEED. conductor No. 6 AWG stranded bare copper R10--12 - "Left Turn ground wire Yield on Green" (42" 8053 x 36") LF Furnish and install electrical cable No. **XXX** 9003 EΑ 4 AWG - THHN/THWN Full actuated 8 phase controller with Intersection copper REVISIONS APPROVALS moniter mounted in pole MARYLAND . DOT - STATE HIGHWAY ADMINISTRATION 8055 mounted size 5 cabinet. 40 LF Install wood sign Office of Traffic & Safety supports 4 in. x 6 9004 EΑ Four channel loop ASST. DIV. CHIEF, SIGNAL DESIGN SECTION TRAFFIC ENGINEERING DESIGN DIVISION in. detector amplifier ORIGINAL DERRICK DICKERSON 8056 SF DRAWN BY 813 Install ground 9005 EΑ Microloop Probe Set ASST. DISTRICT ENGINEER, TRAFFIC mounted sign with 500 ft. of lead-DERRICK DICKERSON DES. BY in cable. GENERAL INFORMATION SHEET 8057 11 SF 813 Install overhead CHK. BY HIEF, TRAFFIC ENGINEERING DESIGN DIVISION LOG MILE #:1201520.98 COUNTY:__ HARFORD mounted sign A SHA NO. PENDING 7-8-96 S/FILE NO. SHEET NO. F.A.P. NO. <u>STPG-0008(493)E</u> UPGRADE F.C.B. TO FULL COLOR TRAFFIC SIGNAL.

CONSULTING ENGINEERS

COLUMBIA, MARYLAND

g:\projects\9216819\dgn\sw01m152.d Jul. 18, 1996 11:22:11

F H W A REGION NO.

FED. AID PROJ. NO.

NTS

S.H.A. NO.

SCALE: ___

FPUTY CHIEF ENGINEER, OFFICE OF TRAFFIC